

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/853,801	05/11/2001	Anthony Vetro	MH-5074	7035
7	590 06/25/2004		EXAMI	NER
Patent Department Mitsubishi Electric Research Laboratories, Inc. 201 Broadway Cambridge, MA 02139			SENFI, BEHROOZ M	
			ART UNIT	PAPER NUMBER
			2613	4
			DATE MAILED: 06/25/2004	
7				

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/853,801	VETRO, ANTHONY				
Office Action Summary	Examiner	Art Unit				
	Behrooz Senfi	2613				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed vs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 11 M	ay 2001.					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
,	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119/a)-(d) or (f)				
a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau	s have been received. s have been received in Applicat ity documents have been receive	ion No				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) Interview Summary					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				

Application/Control Number: 09/853,801

Art Unit: 2613

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 6 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (US 6,249,549).

Regarding claim 1, Kim '549 discloses "a method up-sampling a compressed bit-stream" (i.e. fig. 2), and "partially decoding the compressed bit-stream to produce a plurality of macro-blocks, each having DCT coefficients according to a predetermined dimensionality of the macro-block" (i.e. fig. 2, 210 – 214), and "applying a plurality of DCT filters to the DCT coefficients of each macro-block to generate a plurality of up-sampled macro-blocks for each macro-block, there being one up-sampled macro-block generated by each filter, each up-sampled macro-block having the predetermined dimensionality" reads on (fig. 2, 216 and 218, wherein the DCT domain filter 216 is equivalent to up-sampling filter/processor 226).

Regarding claims 2 - 3, Kim '549 discloses, "each up-sampled macro-block has 2xn pixels arranged in rows and columns, and applying two DCT filters to the rows of pixels" reads on (i.e. col. 4, lines 30+ and col. 8, lines 11+, and col. 17, lines 1+).

Application/Control Number: 09/853,801

Art Unit: 2613

Regarding claims 4 - 5, the limitation as claimed "matrix multiplication" reads on DCT, DCT is matrix and manipulating the DCT is a matrix multiplication, and "matrix of filter taps in claim 5" reads on (i.e. col. 12, lines 5+).

Regarding claim 6, the limitations claimed are substantially similar to claim 1, therefore the ground for rejecting claim 1 also applies here.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Behrooz Senfi** whose telephone number is (703) 305-0132.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Chris Kelley** can be reached on **(703) 305-4856.**

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relative to the status of the application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Page 4

Application/Control Number: 09/853,801

Art Unit: 2613

B.S. B. ...

6/23/2004

GIMS PHILIPPE BRIMARY EXAMINER